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## MINUTES

### Forty-fifth Annual Meeting, Kansas Academy of Science, Supreme Court Room, December 23 and 24, 1912.

PURSUANT to announcement of program, the Academy convened at 10:30 A. M. The secretary-librarian reported the minutes of the Pittsburg meeting and the present condition of the library. Forty bound volumes have been added, most of them being government publications, and 101 volumes of our paper-bound pamphlets have been bound in half-morocco at the state printing plant. We have yet remaining unbound 400 or 500 volumes of scientific publications, received as exchanges for our Transactions.

On motion this report was adopted.

Professor Havenhill next read his report as treasurer, as follows:

Balance November 20, 1911.....	\$712.94
Interest on deposits.....	25.74
Dues paid to treasurer.....	26.00
Dues paid to secretary.....	62.00
Total.....	\$826.68
Paid out.....	8.00
Balance on hand December 23, 1912.....	\$818.68

On motion this report was referred to the Auditing Committee, who later reported that they found the treasurer's report correct, and on motion it was adopted.

President Bushong announced the standing committees for this meeting, as follows:

*Program:* J. A. G. Shirk, Agrelus, Mrs. Smyth.

*Press:* Dains, A. A. Graham, McWharf.

*Audit:* Wooster, A. J. Smith.

*Membership:* Deere, Randall, Mrs. Smyth.

*Time and Place:* Harshbarger, Shirk, McWharf.

*Nominations:* Bailey, Yates, Agrelus.

*Resolutions:* McWharf, Graham, Dains.

*Necrology:* Mrs. Smith, Lovewell.

*Engineering Section:* Yates, A. J. Smith, Nielson.

The hour of noon having arrived, the Academy adjourned till 1:30 for lunch.

DECEMBER 23, 1:30 P. M.

The reading of papers was called for, and papers selected by the Program Committee from the list herewith given were read.

Before the reading began, on motion of A. J. Smith, a committee was appointed to consider a proposition of affiliation between the Academy and the Engineering Society. Professors Smith, Yates, and J. A. G. Shirk were named as a committee, to report later.

Prof. Wooster reported that the Audit Committee had examined and found the treasurer's report correct, and it was adopted, and the committee discharged.

Professor Wooster read a paper on The Glacial Moraine Southwest of Topeka. The paper was discussed by B. B. Smyth and A. J. Smith.

Professor Smith exhibited and described some California fossils found by him in the bitumen beds.

Mr. A. A. Graham read two interesting papers on the Formation, Disintegration and Growth of Rocks, and Ground Avalanches, which were discussed by Wooster and Shirk.

Professor Bailey read a paper discussing European Food Markets, being the results of observations made in his trip abroad last summer. The paper was discussed by Bushong, Harshbarger, and Smyth.

Professor Wooster read a paper on "Biotropism," and showed the term justified by analogy and a useful adjunct in scientific description.

L. D. Havenhill presented a paper showing that the quality of foods and medicines has been improved since the foods and drugs law went into operation. Discussion by Bailey and Dains.

Notes on the Fertilization of Corn; by B. B. Smyth.

A Fossil from Coal Beds; discussed by L. C. R. Smyth.

On the Formation of Some New Formamidines; by F. B. Dains.

The Longevity of College Graduates, illustrated by a chart compiled from a recent publication of the living graduates of Yale University; by J. T. Lovewell. Discussed by Bailey.

Mrs. Smyth spoke of investigations of certain fungi that might account for the horse disease in western Kansas.

The Occurrence of Tin in Canned Goods was presented by Jackson and discussed by Dains and Bushong.

The Flora of Kansas; by B. B. Smyth and L. C. R. Smyth; read by title and outline given.

The Committee on Affiliation with the Engineering Society reported as follows:

*Provisional Union of the Academy with the Engineering Society.*

1. All members of the Engineering Society shall become members of the Academy of Science, and shall be entitled to all the privileges of the regular members.

2. The Engineering Society shall be known as the Engineering Section of the Academy of Science. They may fix requirements for membership in this section, but members of other sections shall be entitled to attend their meetings.

3. One general president shall be elected from the whole Academy, also one permanent secretary.

4. One vice president and secretary shall be elected by each section annually, who shall preside and keep the records of the meetings of the section from which they are elected.

5. All papers presented before the sections of this Academy shall, before publication, be passed upon by a committee of that section, and then presented to the Committee on Publication of the Academy.

A. J. SMITH,  
J. A. G. SHIRK,  
J. A. YATES,  
N. P. NIELSON,  
*Committee.*

This report was adopted, and directed to be submitted to the Engineering Society at their meeting in January.

Professor Bailey thought that other organizations, notably the architects, might desire to form sections in the Academy on similar terms.

The hour announced for the supper having arrived, the Academy adjourned to the Y. W. C. A. building, where the local members had provided a most excellent banquet, which all enjoyed. The members next repaired to the Y. W. C. A. assembly room to listen to the retiring president's address, and the lecture of the evening by Prof. A. V. H. Mory, of Chicago, both of which able productions are reported in full in the Transactions.

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DECEMBER 24.

The Committee on Membership reported the names of the following candidates, and recommended that they be admitted to membership:

*Applicants for Life Membership:* F. W. Bushong, Mrs. L. C. R. Smyth.

*Applicants for Annual Membership:* S. J. Crumb, Geo. A. Dean, Mary A. Harman, S. W. Humphrey, H. H. Oldendick, J. W. Scott, E. L. Tague, M. C. Tanquary.

On motion, the rules were suspended and the secretary cast the vote of the Academy, and the president declared the above-named persons duly elected.

To secure advantages for lantern projection, the Academy adjourned to the lecture room of Washburn College observatory.

The Committee on Nomination of Officers for 1912-'13 reported as follows :

President, A. J. Smith, Emporia.  
First Vice President, W. A. Harshbarger, Topeka.  
Second Vice President, J. A. G. Shirk, Pittsburg.  
Treasurer, L. D. Havenhill, Lawrence.  
Secretary, J. T. Lovewell, Topeka.

This report was adopted, and on motion the rules were suspended and the president cast the vote of the Academy and declared the above-named officers duly elected as officers for the ensuing year.

By vote of the Academy, the Executive Council was continued as last year: *Ex officio*, President Smith; by election, Bailey. *Ex officio*, Treasurer Havenhill; by election, Dains. *Ex officio*, Secretary Lovewell; by election, Crumbine. By election, Willard.

The Committee on Time and Place reported as follows:

Baldwin, Kan., to be the place, and the time to be fixed by the Executive Committee.

The report was adopted, with provision that both time and place may be referred to a joint committee of the Academy and the engineers, this committee to be named by the presidents of the two societies in case the affiliation goes into operation.

It was moved, seconded and carried that the Kansas Academy of Science go on record as favoring a national law for the protection of bird life in the United States, and that the secretary of the Academy communicate this action to the Kansas congressmen at Washington and urge them to support such a bill if presented to Congress.

The able lecture by Professor Edmondson, of Washburn College, was listened to with much interest. His subject was The Highways and Byways of Japan, and the elegant lantern slides were taken by the lecturer during his recent tour in that country.

The Committee on Necrology reported the death of one of our associate members, Mrs. Mary Savage, wife of Joseph Savage, one of our earliest members. The death of Prof. J. J. Jewett was also reported, and obituary notices will be published in our Transactions.

L. J. Reiser, in charge of the treating plant of the Rock Island railroad, read an interesting paper on the preservation of timber.

Professor Tague, of Washburn College, presented some investigations concerning the protein of corn. Discussed by Mrs. Smyth and Professors Bailey, Jackson, Agrelus, Reiser, and Warfel.

Prof. B. B. Smyth gave some illustrations of what he terms Paladin squares of 7, 11, and higher prime numbers.

The Committee on Resolutions reported the following:

1. *Resolved*, That the Kansas Academy of Science extends its thanks to the local members in Topeka for their very efficient entertainment and hospitality shown at the forty-fifth meeting of the Academy.

2. We also extend our thanks to the press of the city for the liberal treatment received at their hands.

A paper on the Immunity of Ground Water, by C. C. Young; read by Bailey.

Insecticides, by L. E. Sayre; read by Havenhill.

In absence of the authors, the remaining papers on the program were read by title and the meeting adjourned.